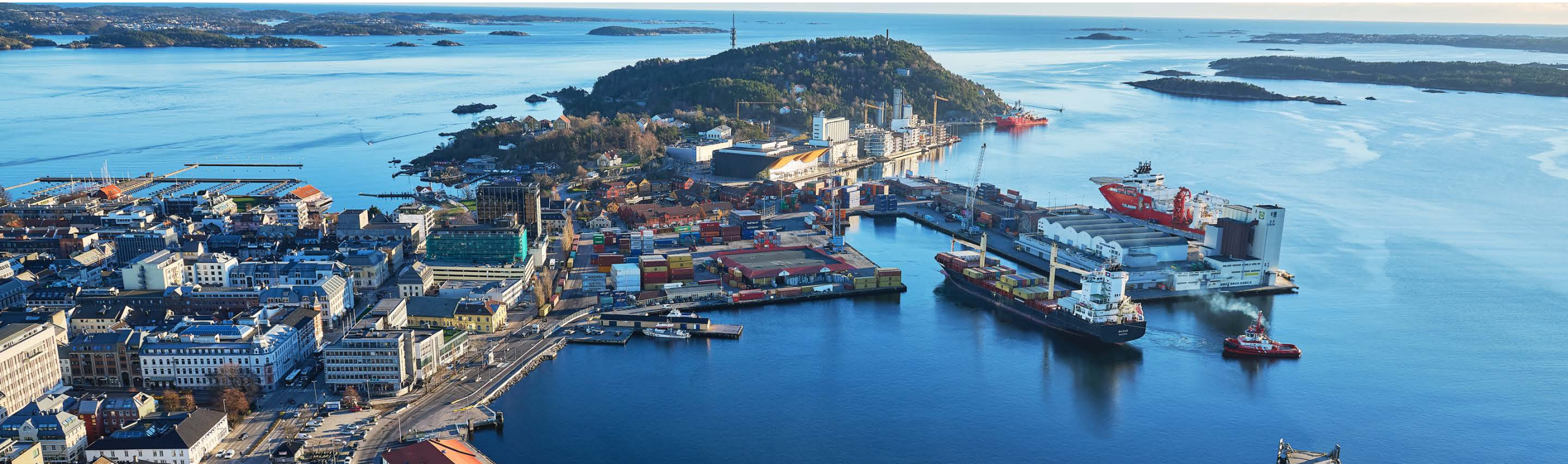




Port Data

*Standardization and digitalization of
harbours in Norway*

*8.March 2022, Oslo
Matilde Skjæveland Skår*



Timeline

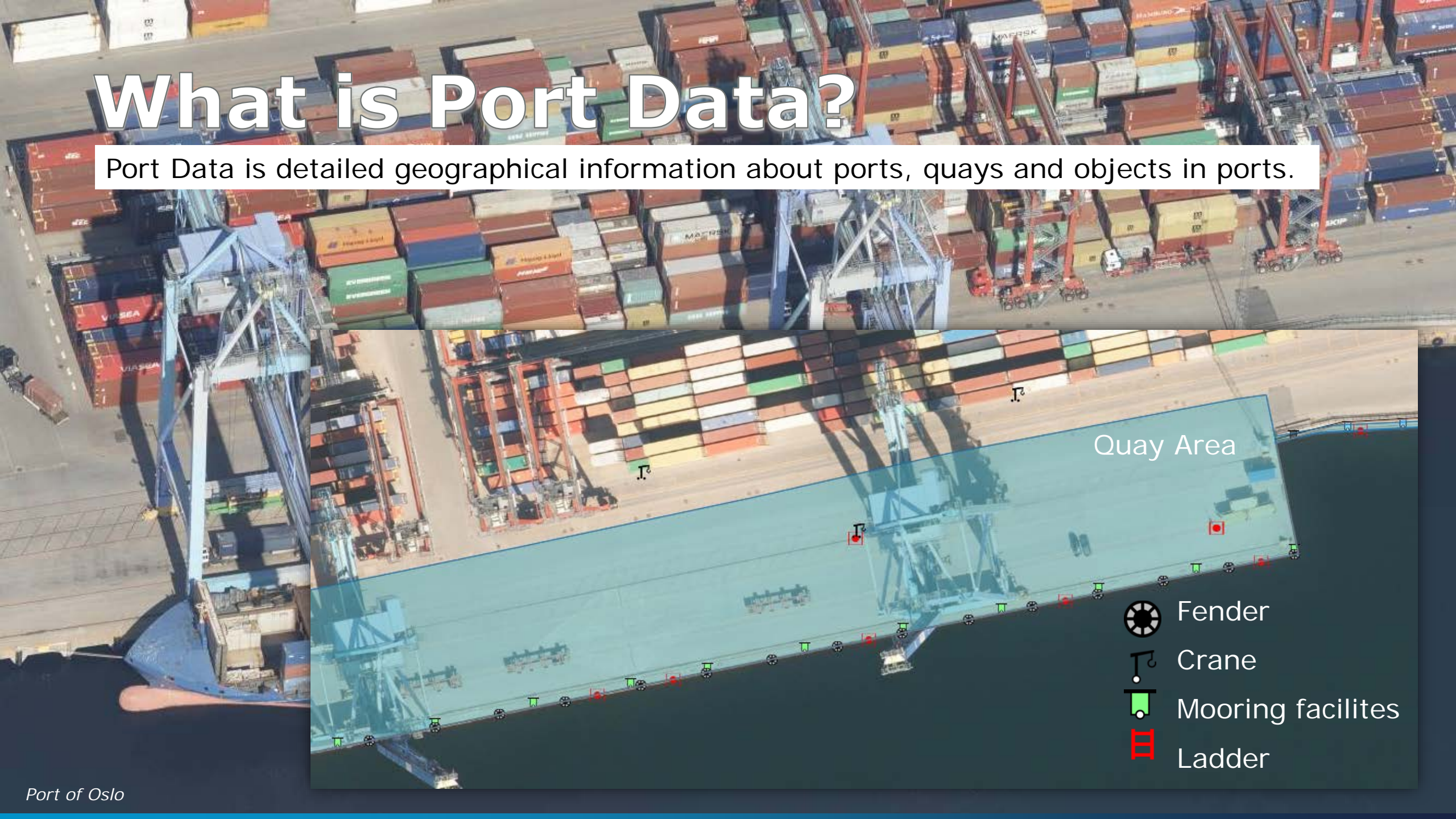
- **2016-2019:** 1st draft Port Data Standard
- **2020:** Project «Havnedata 2020»
- **2021:** Project «Havnedata 2021» and «Norsk digital havneinfrastruktur»
 - **Oct- 21:** Port Data v.2.0
- **2022 →** Project «Standardized product specification»
 - **June -22:** Port Data v.3.0
 - **1/1-23:** Approved Product specification







Photo: Port of Stavanger

What is Port Data?

Port Data is detailed geographical information about ports, quays and objects in ports.



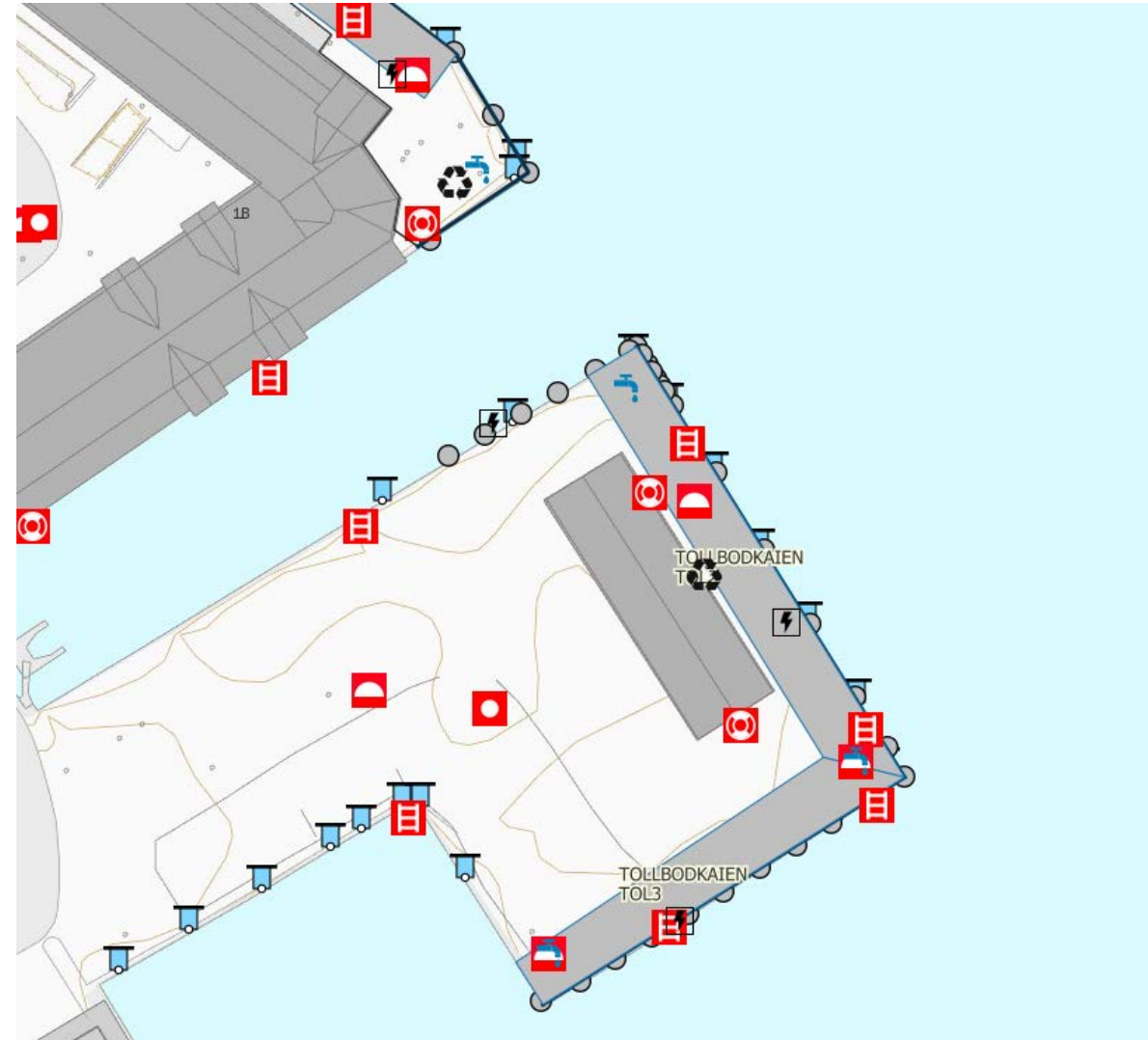
Quay Area

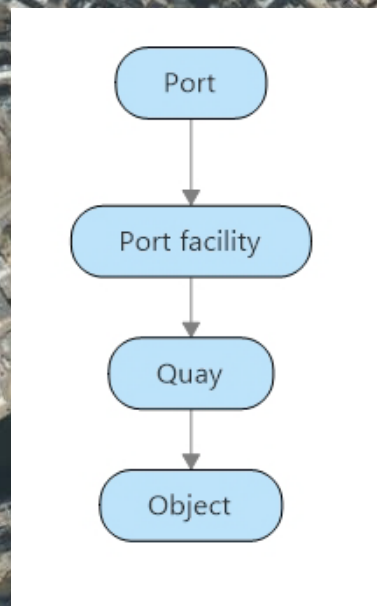
-  Fender
-  Crane
-  Mooring facilities
-  Ladder

Feature types (2.0)



- Port Area
- Port Facility
- Quay Area
- Load limitation Area
- Drydock
- Floating dock
- Slipway
- Port Fence
- Port Fence Entrance
- Quay Front
- Crane
- Solid Waste Disposal
- Liquid Waste Disposal
- Fender
- Toilet
- Emergency Response Equipment
- Mooring device
- Water outlet
- Electricity Connection
- Port Sensor
- Camera
- Fuel connection





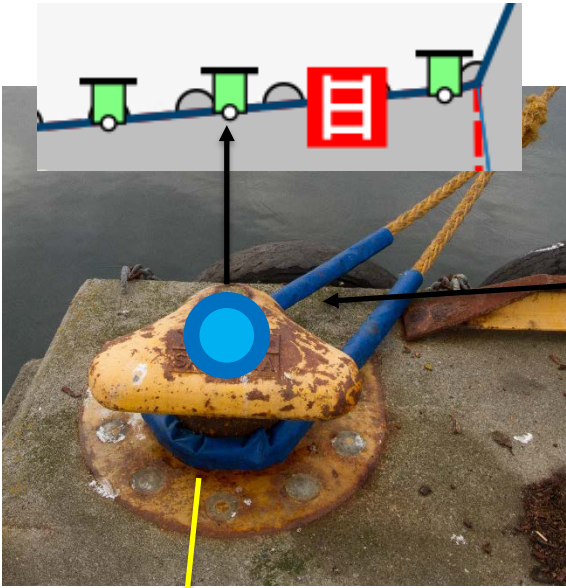
Quay

Berth

Port Facility

Port

Example

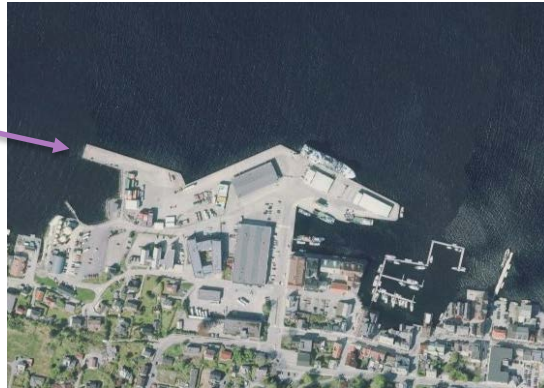
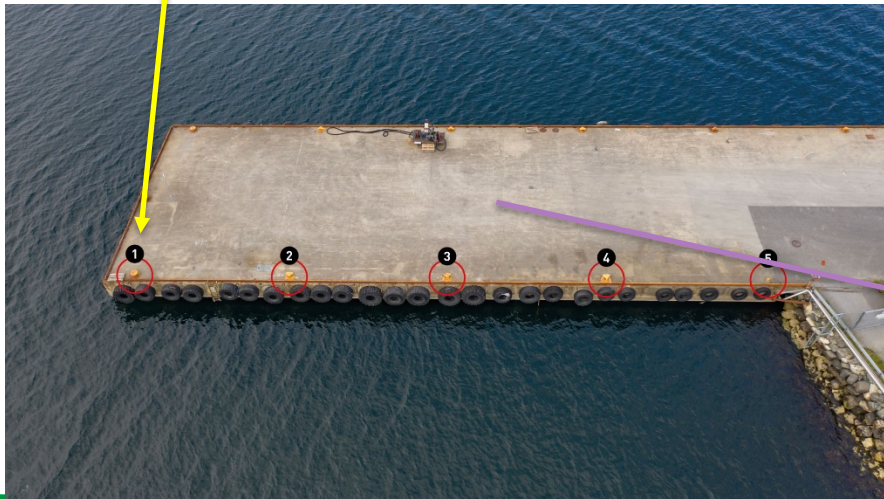


- Object number: 1

- QuayId: 432-12-1
- QuayIdInternal: 55.11.22-K
- QuayName: Example Quay

- PortFacilityId: XX-00-5
- PortFacilityName: Example Facility
- ISPS: YES

- Port: Example
- UNLOCODE: EKSHAV

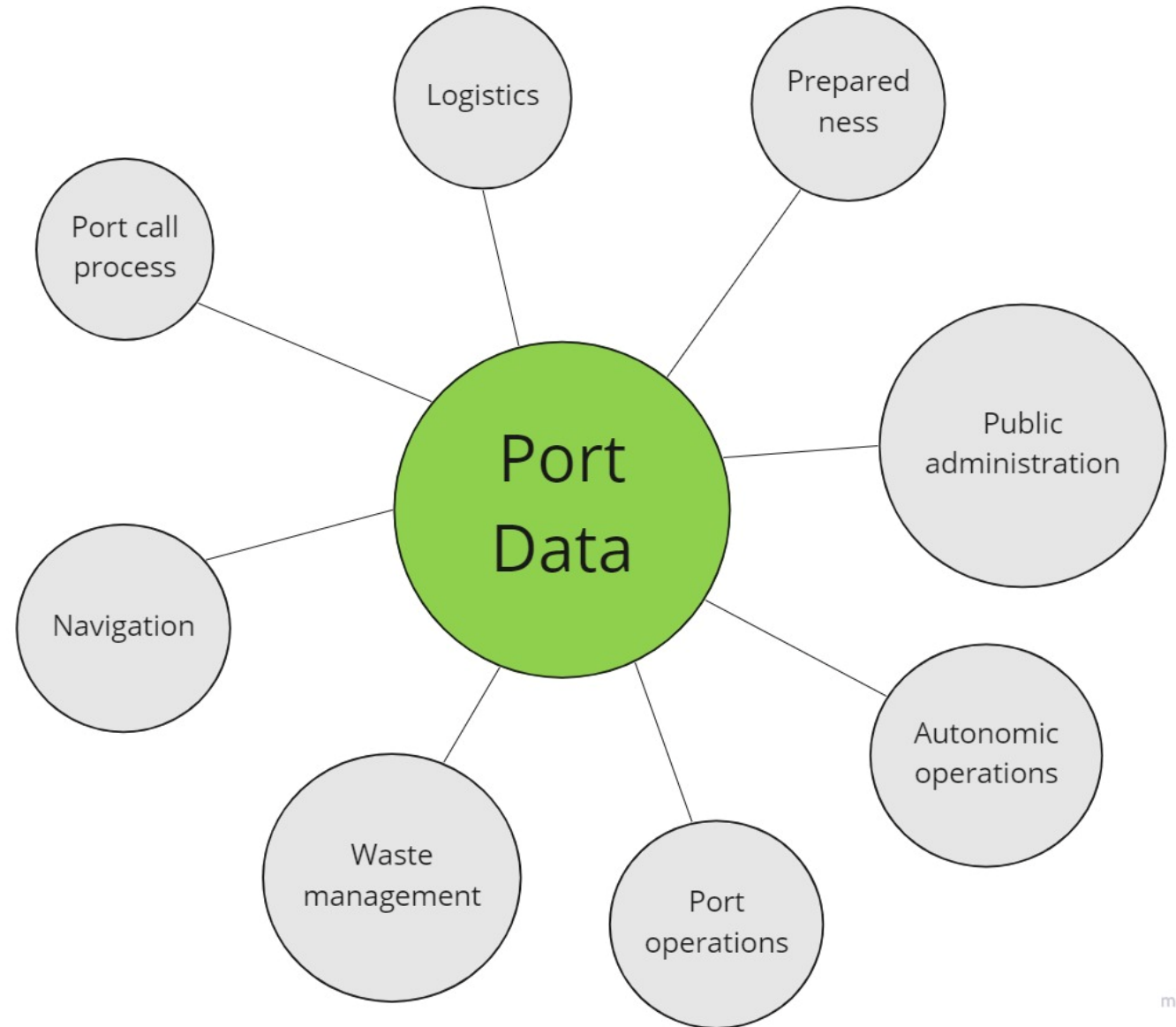


class Hoveddiagram Havnedata 2.0

ObjektId
«FeatureType» Fortøyningsinnretning
+ fortøyningstype: Fortøyningstype
+ høydereferanse: Høydereferanse
+ høydeSjøkartnull: Real
+ maksbelastning: Integer [0..1]
+ posisjon: Punkt
+ sertifiseringsdato: Date [0..1]
+ spesifikasjon: CharacterString [0..1]
+ status: Status [0..1]
+ tillattFortøyningsvinkelGrunnriss: CharacterString [0..1]
+ tillattFortøyningsvinkelOppriis: CharacterString [0..1]
::ObjektId
+ objektLøpenummer: CharacterString
::Kaid
+ kaid: CharacterString
+ kaidIntern: CharacterString [0..1]
+ kainavn: CharacterString [0..1]
::HavneanleggId
+ havneanleggId: CharacterString [0..1]
+ havneanleggNavn: CharacterString [0..1]
+ ISPS: Boolean [0..1]
::HavnId
+ havn: CharacterString
+ UNLOCODE: CharacterString
::FellesegenskaperOpsjonell
+ informasjon: CharacterString [0..1]
+ link: CharacterString [0..1]
+ oppdateringsdato: DateTime [0..1]
::FellesegenskaperPåkrevd
+ datafangstdato: Date
+ identifikasjon: Identifikasjon
+ kvalitet: Posisjonskvalitet

Users and applications

- Port Authorities
- Municipalities
- Government Agencies
- Pilots
- Ships, navigators



miro



Photo: Matilde Skår

Thank you for your attention

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